

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 20

16758420.r MSKAVRLKKEQLLIDGPMR NESLSVEHLIDLVLCVTECSHSALRRDKVAEFLKAKPFTQIVKEMQLHREDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFED

MRCKb MSKAVRLKKEQLLIDGPMR NESLSVEHLIDLVLCVTECSHSALRRDKVAEFLKAKPFTQIVKEMQLHREDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFED

16758474.r MSCEVRLRLEQLFILDGPAQT NGQCFVSEHLIDLVLCVTECSHSALRRDKVAEFLKAKPFTQIVKEMQLHREDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFED

MRCKa MSCEVRLRLEQLFILDGPAQT NGQCFVSEHLIDLVLCVTECSHSALRRDKVAEFLKAKPFTQIVKEMQLHREDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFED

gek. AA MEYSSSEISDITIGCSKQRRLTFLKLSLSDTSSQKWAEEFGEDTEGQFSLDLVLLDVLVTECSHSALRRDKVAEFLKAKPFTQIVKEMQLHREDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFED

14192945.m MSABEVRLLQQLVLDLDFG LGLLELIDLLLVHVEGASHLAODKVAADFLQWETIAARLKVEVRLRDDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMEYYVCGDLLTLLSKFEE

27676600.r MGGHFWPPEPYVDMGSPWEADSPRVKLR RREKGRQTEGCAFVLYSSALGDEFPFSTPPFAEIVVRLKVEVRLRDDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMEYYVCGDLLTLLSKFEE

DMPK1 MGRRLRALBOLRGEAGGS PGLDELIDLLLVHVEGASHLAODKVAADFLQWETIAARLKVEVRLRDDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFEE

27661270.r MGRRLRALBOLRGEAGGS PGLDELIDLLLVHVEGASHLAODKVAADFLQWETIAARLKVEVRLRDDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFEE

DMPK2 MAEPPDDSAFVRLKLELNYMDGSPK PGLDELIDLLLVHVEGASHLAODKVAADFLQWETIAARLKVEVRLRDDFEILKVIQRGAFGEVAVVKMKNTRTYAMKILNK EMLKRAETACFRERDVLVNDGQITLHLYAFQDENLNY LVMDYYVCGDLLTLLSKFEE

K08B12.5.A GNAAAAKKXGEQESVRELAARLDELKWKTEPSTNTAQDQDFDRKLLGCSGFEVLLVLRKESQNYAMKILLDRQVVKVLLQTEHTLAKRLLQAVNPFVLLVDFEFSFKDNLNY VMMEYVAGGEMFSELRRTGR

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210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 40

16758420.r KLPEDMARFYIEMVLAIDSIHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGMKRYGPECD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFSPHVTD VSEAKDLIQLRIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

MRCKb KLPEDMARFYIEMVLAIDSIHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGMKRYGPECD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFSPHVTD VSEAKDLIQLRIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

16758474.r RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

MRCKa RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

gek. AA KLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

14192945.m RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

27676600.r RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

DMPK1 RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

27661270.r RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

DMPK2 RLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

K08B12.5.A HLPEDMARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

113_r_E FXEPHARFYLAEMVLAIDSVHQLYVHRDIKEDNVLLDMNGHIRLADFGSCLKMNDDGTVOSSVAVGTPDYISPEILQAME DGKGRYGPBCD SLVCMYEMLYGETPFYASLVETVYKIMNHERRFPFPAVTD VSEAKDLIRLRLIGSRRRLRQNGIEDFKKHAFPEGLN ENIRNLEAPYTPD

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60

16758420.r VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

MRCKb VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

16758474.r VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

MRCKa VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

gek. AA VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

14192945.m FECAQDTQNFVVDV EDRLTAMVSGGGETLSDMQEDMALQVHLFVGVYSYS LTSSSTLD SKKNQSSFGDDTLDTISS POLAILEPSSNSETFVDSVQLKALDMLQALAKQEKALSKOHV

27676600.r FECAQDTQNFVVDV EDRLTAMVSGGGETLSDMQEDMALQVHLFVGVYSYS LTSSSTLD SKKNQSSFGDDTLDTISS POLAILEPSSNSETFVDSVQLKALDMLQALAKQEKALSKOHV

DMPK1 FECAQDTQNFVVDV EDRLTAMVSGGGETLSDMQEDMALQVHLFVGVYSYS LTSSSTLD SKKNQSSFGDDTLDTISS POLAILEPSSNSETFVDSVQLKALDMLQALAKQEKALSKOHV

27661270.r LRCPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

DMPK2 LRCPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

K08B12.5.A VSSPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

113_r_E FKCPDTSNFDVDDVLR NHEHPGSHGTFPSLHDFIGFTFTTESCFSDRGLSKSMQSNLTKDDEVDQRLDLSQMEAYERRIRRLRQEKLELRLQESTQTVQSLHGSSTRALGNSNRDKETIKLKNBEIERLKNKIADSNRLEQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 80

16758420.r SERLKSQKELKADAHQQRKRALQEPSEINERMAELRSQKQKVRQLRKLREEMEVAMQKIDSNRQDITKSEKSRKELRLQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

MRCKb SERLKSQKELKADAHQQRKRALQEPSEINERMAELRSQKQKVRQLRKLREEMEVAMQKIDSNRQDITKSEKSRKELRLQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

16758474.r SERLKSQKELKADAHQQRKRALQEPSEINERMAELRSQKQKVRQLRKLREEMEVAMQKIDSNRQDITKSEKSRKELRLQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

MRCKa SERLKSQKELKADAHQQRKRALQEPSEINERMAELRSQKQKVRQLRKLREEMEVAMQKIDSNRQDITKSEKSRKELRLQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

gek. AA SERLKSQKELKADAHQQRKRALQEPSEINERMAELRSQKQKVRQLRKLREEMEVAMQKIDSNRQDITKSEKSRKELRLQEDTVALRQREDSTORLRGLSKORVVRQEKBEELKQOLVA

14192945.m FERLKNQSELDQATISQRNLTAMVSEYVDEKLELRNKKOKLROVRRKEEELDGMQKIDSNRNLKSDKIRREELIIDEAVIEAARLREKLELREHA EDCORQLOMLER KGSSTVETMPLSISDESMS SYETERLELOFSEKLSHQQTRNHMEBALREOFSELEN ANLALNKEELQOERLKYOMBSI

27676600.r FERLKNQSELDQATISQRNLTAMVSEYVDEKLELRNKKOKLROVRRKEEELDGMQKIDSNRNLKSDKIRREELIIDEAVIEAARLREKLELREHA EDCORQLOMLER KGSSTVETMPLSISDESMS SYETERLELOFSEKLSHQQTRNHMEBALREOFSELEN ANLALNKEELQOERLKYOMBSI

DMPK1 FERLKNQSELDQATISQRNLTAMVSEYVDEKLELRNKKOKLROVRRKEEELDGMQKIDSNRNLKSDKIRREELIIDEAVIEAARLREKLELREHA EDCORQLOMLER KGSSTVETMPLSISDESMS SYETERLELOFSEKLSHQQTRNHMEBALREOFSELEN ANLALNKEELQOERLKYOMBSI

27661270.r TEHLRDKASLPSQDGLHVRSPAPDIQIQEKDRLOCLAFQAQALVQDAEIQCAQNOQEBELRLREBAARASQIOLMSLEBAVWVRREVGDSSGSSKCSMSLAPAVAGYGGQALQEQVNTLSQVTLQGGQKQ DSSSQAKTVAHAPETNGTSSPESQSAOLRREVAARLEOLCACSQV

DMPK2 PEMLRDKASLPSQDGLHVRSPAPDIQIQEKDRLOCLAFQAQALVQDAEIQCAQNOQEBELRLREBAARASQIOLMSLEBAVWVRREVGDSSGSSKCSMSLAPAVAGYGGQALQEQVNTLSQVTLQGGQKQ DSSSQAKTVAHAPETNGTSSPESQSAOLRREVAARLEOLCACSQV

K08B12.5.A IAQLKDEIQILNKRLEDEALAQCKQKPKDEIVASEKQKLELKERNKQVMEKSEIQREDDNIDHEDQVLEKATVVOORDMOQAEIADVGDSSLTE KDSVKRLQDEAKKQVADFEKLELREHTEKTALIKKQEVVTEARKSVETDDHLSBEVVAKNTIAEQATNE ERETEIKKQKQRMDEBRASHT

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810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 10

16758420.r SEMEBAIQAMQKDYRERBAMLDENKKTAEKELCSFVDKLTAQNRQLEDELQDLAKKESVAEBAQTAELIIVSDEKQARCYLQALASKMTELEALRSS SLGSRITLD PLKVRRSQKLDMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK FRA

MRCKb SEMEBAIQAMQKDYRERBAMLDENKKTAEKELCSFVDKLTAQNRQLEDELQDLAKKESVAEBAQTAELIIVSDEKQARCYLQALASKMTELEALRSS SLGSRITLD PLKVRRSQKLDMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK FRA

16758474.r SREBESFNEKQCYRBRVLLDENKKTAEKELCSFVDKLTAQNRQLEDELQDLAKKESVAEBAQTAELIIVSDEKQARCYLQALASKMTELEALRSS SLGTRATD MPKMRRAFKLDMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK LRS

MRCKa SREBESFNEKQCYRBRVLLDENKKTAEKELCSFVDKLTAQNRQLEDELQDLAKKESVAEBAQTAELIIVSDEKQARCYLQALASKMTELEALRSS SLGTRATD MPKMRRAFKLDMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK LRS

gek. AA TDSAEHLLEKQKHLRKSSEWBEKRLSBEVNLKSKLKLQADD DEIFKELRMRKREAITERQAEIIVSDEKQARCYLQALASKMTELEALRHVGFNNNGVGN KNRRRSQKLDKMEILQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK LRS

14192945.m AETETVTLQ QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM

27676600.r AETETVTLQ QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM

DMPK1 AETETVTLQ QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM QLBALBEVLTROSRLREBAITRANQFSSOLQAEVNRNDEBAHVROLQERMM

27661270.r N---VGEVSLCRLOENORISREQERLA EELDELQSRGLEGRRESSENAEQADILSVNDEKYSRYLQALATKMAEELSLRNVG TQTLPRPLDHC KARRLQKQMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK LRS

DMPK2 SGRGALCOLSENRRLSREQERLA EELDELQSRGLEGRRESSENAEQADILSVNDEKYSRYLQALATKMAEELSLRNVG TQTLPRPLDHC KARRLQKQMSARLEQSALEAETRAKQLOBELRKRVDANLLESKLDSEKKNRBLBEMESLKKMSEK LRS

K08B12.5.A AQSEEMKQLEAHYBRACKMLQNVQMNVENRGR DETEKLSSQMAALPRGGLNEQOLHEFNWSEKATREBEMENLRKILTEVESLKNNSPLTNTNYIQNPPSGSRRNNVARKDGLDQRLQAEIDAKKLELREKNSQOYVTSARIDQHEKRMAHREVAAMKQOKNTEN SSD

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